
Audio Systems Handbook

Foreword



Audio System Handbook

JAGUAR CARS LIMITED, as manufacturer, is dedicated to the design and production of vehicles which meet the expectations of the world's most discerning purchasers.

This handbook forms part of the owner literature supplied with your vehicle. It is designed to complement the relevant features and systems of the vehicle, and make them easy to understand and operate.

The information contained in this handbook applies to a range of vehicles and not to a specific vehicle. For the specification of a particular vehicle, owners should consult their Jaguar Dealer.

The manufacturer reserves the right to vary its specifications with or without notice, and at such times and in such manner as it thinks fit. Major as well as minor changes may be involved in accordance with the Manufacturer's policy of constant product improvement.

To cover changes, it is sometimes necessary to issue one or more handbook supplements. When reading this handbook, check the owner literature for possible supplements.

For full details of the owner literature originally supplied with the vehicle, owners should consult their Jaguar Dealer.

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General Information

The sound system is available in two versions: the Base System, and the Premium System.

The Base System comprises a radio, cassette tape player optional compact disc (CD) player and door mounted speakers.

The premium system has the CD player fitted as standard, extra speakers mounted in the doors and sub-woofers mounted in the parcel shelf (coupe) and rear quarters (convertible). Both systems have an FM aerial and an AM aerial telescopic rod aerial. An additional feature of the Premium System is digital signal processing (DSP) which enhances sound quality in two ways: sub-woofer control and optimising sound to occupant positions.

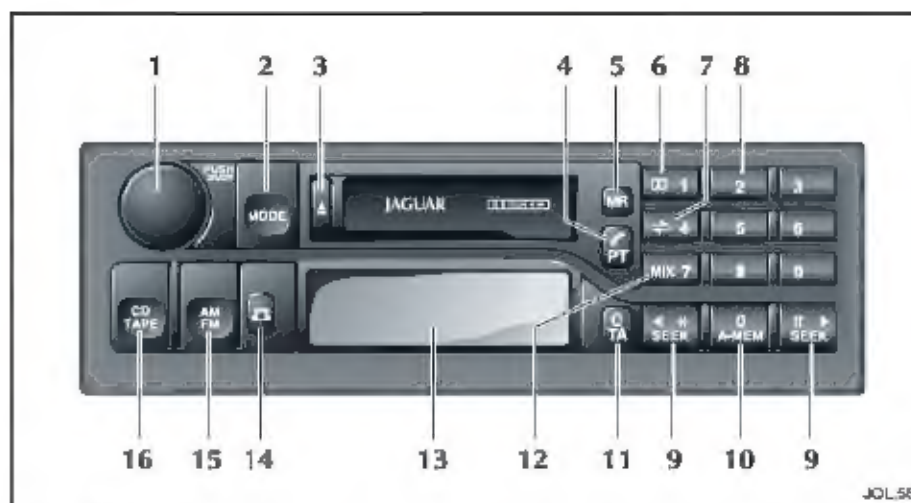
The system is operated by the controls on the fascia panel, and the controls on the left-hand side of the multi-function steering wheel (where fitted). The control panel has an alpha-numeric display which provides detailed information, including text messages, relating to the operation of the unit.

1-2 Introduction and controls

Radio cassette player controls

Key

1. ON/OFF switch and volume control.
2. Mode button.
3. Cassette tape eject button.
4. Programme type (PT) and phone send and end button.
5. Phone memory recall button.
6. Dolby B noise reduction (cassette mode) preset and phone key pad 1.
7. Programme change button (cassette mode) preset and phone key pad 4.
8. Preset buttons and phone key pad.
9. Radio tuning controls, cassette tape forward and rewind controls, CD player forward and reverse controls and seek function for all modes.
10. Auto memory (A-MEM) and phone key pad 0.
11. Traffic Information, Radio Broadcast Data System and phone clear button.
12. CD Mix (where fitted) and preset and phone key pad 7.

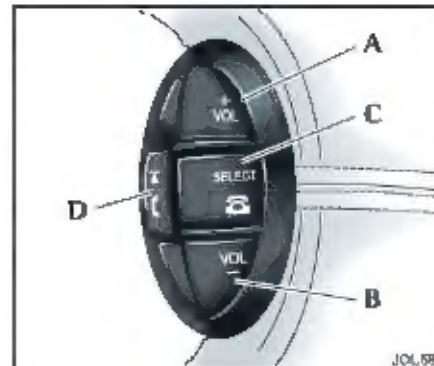


13. Display.
14. Phone mode button.
15. AM/FM band button.
16. Cassette tape and CD player button (where fitted).

Steering wheel audio system controls (where fitted)

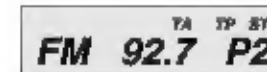
Four audio system control buttons are situated on the left-hand side of the steering wheel. These buttons override the functions of the similar buttons on the radio control panel.

- A. Press to increase volume.
- B. Press to decrease volume.
- C. Press and release to cycle through Radio FM, AM, Cassette or CDs.
Press and hold to enter phone mode.
- D. Press and release to seek to next preset radio station, or to next track on tape and CD.
Press and hold to cycle to the next radio station, or to the next CD, or to change side of tape.



Sound system display

Example of radio display:



- TP Traffic Programme
- TA Traffic announcement selected
- ST Stereo.

1-4 Introduction and controls

Aerial operation

The aerial automatically rises when the radio is switched on and the ignition switch is in position I or II. The aerial will lower when the radio is switched off.

Note: The aerial will always be raised regardless of being in tape or CD modes, to enable RBDS information to be received on the FM waveband.

Caution: Do not attempt to raise the aerial manually.

It is important to clean the radio aerial periodically to maintain smooth operation and good reception.

If your vehicle is fitted with a cellular telephone, you are advised to take the following precautions in areas where there is restricted overhead clearance such as an automatic car wash.

1. Switch the radio cassette and ignition OFF.
- or
2. Switch the radio cassette and cellular telephone OFF.

FM and AM reception

FM reception has the advantages of low noise, minimal distortion, wide dynamic range, extended frequency response, and is usually broadcast in stereo. However, as FM frequency waves are relatively short and travel in a straight line, they can sometimes be impeded by obstructions, adversely affecting reception in some parts of the country. Whilst FM reception will generally provide better quality sound, AM reception or Medium Waveband (MW) may be better in remote areas not covered by the shorter range FM transmitters.

When experiencing poor FM reception, background noise can be reduced by adjusting the Mode button into Treble adjustment position and reducing the treble setting.



ON/OFF and volume control

Press the knob to switch on the radio cassette and light up the display. Press the knob again to switch off. Turn the ON/OFF switch clockwise to increase volume and anti-clockwise to decrease volume.

Automatic volume control (AVC)

This is a feature which raises the volume of the radio to overcome road noise as the vehicle's speed increases. To switch AVC on or off, press the volume knob for more than two seconds. The current state will be displayed i.e. **AVC ON/AVC OFF**. To toggle ON/OFF momentarily, press the volume control knob again to change the state. The AVC level can be adjusted from 1 to 5 by turning the volume knob while in AVC ON mode. After five seconds of no action, the radio will return to normal radio mode.

When AVC is ON, it is possible to override the automatic mode by adjusting the volume manually.



Mode button

Press the mode button repeatedly to cycle through the various modes. Once a function has been selected, turn the volume control to adjust sound quality. After about five seconds the radio will return to normal volume control mode.

The modes are:

BASS Increase/decrease

TREBLE Increase/decrease

Note: A source tone memory automatically memorises bass and treble positions for radio, cassette tape and CD, allowing individual settings for each mode.

BALANCE Left to right

FADE Front to rear

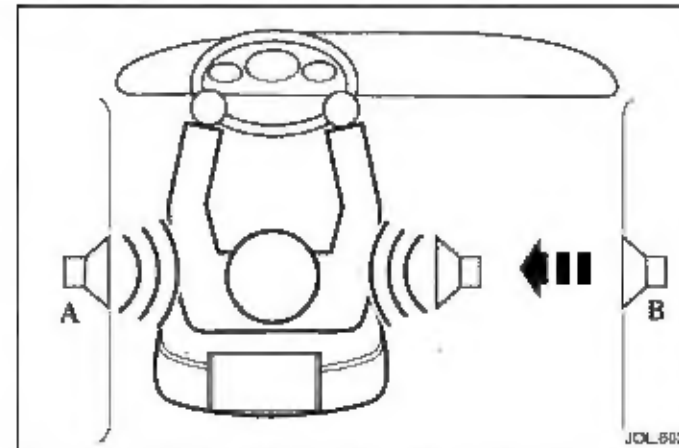
NAV Set the relative levels of voice guidance volume to audio volume (voice guidance emphasis) – Only vehicles with Navigation Systems.

SUB-WOOFER Set sub-woofer level from -7 to +7 (premium systems only).

POSITION Using volume control, set speaker delays to optimise stereo sound for a selected seating position (premium systems only).

For example (see above right) sound can be optimised for the driver on the left by introducing a delay in speaker (A), effectively moving speaker (B) to the position shown, balancing the stereo effect.

Optimising sound (premium systems only)



Sound can be optimised for the following seating positions:

- Front Left
- Front Right
- Centre (All)
- Rear

To select the seating position:

Press the mode switch until **POSITION** is displayed then turn the volume control to cycle through the available positions.

1-6 Introduction and controls

FADE Disable

On all convertible models fitted with the Premium Audio System, the FADE function is disabled at the factory.

Whilst Jaguar Audio Engineering recommends that FADE control is kept in this disabled condition, it can if desired, be re-enabled in the radio set-up mode as follows:

1. Simultaneously press the cassette eject and AM/FM buttons.
2. Pressing preset button 9 will then toggle between FADE ENABLE and FADE DISABLE as shown on the audio display panel.
3. To exit set-up mode, simultaneously press the cassette eject and AM/FM buttons. If the exit set-up procedure is not adopted within 15 seconds of selecting FADE enable or disable, the audio display will automatically clear and the system will return to the previous setting.

Note: If the audio system is set to FADE ENABLED and the sound is then faded to the rear, it should be noted that only low frequency sounds will be heard.



Preset buttons



WARNING:

Do not attempt to set the station presets while driving. Do this before starting a journey.

In each waveband, nine stations can be memorised in the bank of preset buttons marked 1 to 9. After tuning to a station, hold the chosen preset button for at least two seconds. The unit will 'beep' to indicate that the station has been stored. The station can be recalled from this preset memory by pressing the button momentarily, for less than two seconds. The steering wheel preset selection button when pressed will cycle through the nine preset stations (see page 1-3).



Seek and manual tuning

This control has two functions: seek and manual tuning. Momentarily pressing either button will activate the radio in the seek mode, making the tuner search up or down the frequency range for the next available station.

Push and hold either button to tune the radio manually, the display counts up or down to the frequency required. Incremental adjustment can be made by momentarily pressing the buttons until the required frequency is reached. (After a short period this will return to seek tuning if you momentarily press the button.)

Radio operation



Band Switch AM/FM

Band selection will be shown in the display panel. Pressing the band switch repeatedly will cycle the radio through FM and Medium bands (where applicable). When a cassette tape or CD is being played, pressing the Band Switch selects radio operation.



Auto memory (A-MEM)

The automatic memory function programmes the nine strongest stations on the selected waveband into presets 1 to 9.

To activate this function, hold the A-MEM button for at least two seconds.

The radio is muted briefly while it searches the waveband for the nine strongest stations. A beep indicates that programming is complete and preset number 1 is selected.

If stations cannot be found for all preset buttons, those found will be allocated to preset buttons, starting with number 1, leaving the remainder not programmed. The display will show NO FM or NO AM if unprogrammed buttons are selected.

To switch between the A-MEM preset stations and your own presets, press the button for less than two seconds.

A-MEM with radio broadcast data system (RBDS) selected

If the A-MEM function is operated while in RBDS mode, the radio will be muted briefly, while a search is made for the nine strongest RBDS stations. Similarly, if A-MEM is used with Traffic Announcement (TA) activated, the radio will only programme the nine strongest RBDS stations carrying traffic information.

If stations cannot be found for all preset buttons, those which are found will be allocated to preset buttons, starting with number 1, leaving the remainder not programmed. The display will show NO FM or NO AM if unprogrammed buttons are selected.

Note: When used correctly, RBDS and TP are very effective additional radio capabilities. However, if these facilities are used without full understanding, they may cause confusion to the operator. This is less likely to occur as more RBDS stations become available.

See page 2-2 for operating the radio RBDS functions.

2-2 Sound system operation

Radio broadcast data system (RBDS)

The Jaguar sound system is equipped with Radio Broadcast Data Systems (RBDS) which assists in finding and staying tuned to a chosen station. The radio decodes signals, transmitted with certain stations on FM, which provide the following functions (dependent upon service provided).

- **RBDS station name display**

When RBDS is selected the station name is displayed in eight characters as well as the frequency. The display also identifies network 'splits', where different programmes are being broadcast on FM or Medium Wave

- **Automatic re-tuning to follow network stations**

Note: Due to the transmittal of spurious RBDS Alternative Frequency signals by some radio stations, this function is switched off on US specification vehicles. If required, automatic re-tuning can be switched on again (refer to page 2-3).

RBDS provides fully automatic radio tuning for network stations. It tunes to a signal not a frequency. The RBDS will search out the strongest signal available for a given station and automatically switches frequency as necessary.

- **RBDS Station/Programme type display and search**

RBDS provides information as to the type of material broadcast by the station or programme that is on, i.e. NEWS, CLASSICAL, ROCK, etc. Apart from being able to display this, the radio can search for one specific programme type that is selected.

RBD5 operation



To activate RBD5: press the TA button and hold for at least two seconds.

(Display: RBD5 ON)

To de-activate RBD5: press the TA button again and hold.
(Display: RBD5 OFF)

When RBD5 is activated, the radio gathers RBD5 information and displays the Service name and frequency, provided the programme chosen is an RBD5 station.

If not, the radio will stay on station, the display will show the frequency and RBD5 will stay on in readiness for a signal.

When listening to a National Network Station, or a station that broadcasts on more than one frequency, the radio will re-tune to the strongest available signal. This 'network following' will continue throughout the journey. (The unselected presets will also receive new frequency information, if appropriate.)

Note: On US specification vehicles, the above function is switched off at the factory. If desired, automatic re-tuning can be switched back on following the procedure under **Radio set up modes** on page 2-5 and using **Preset 8**.

When RBD5 data is lost and no alternative frequency signal is available, the radio will stay on station, the display shows the frequency only and RBD5 remains on in readiness for the signal to recover.

If the RBD5 function does not respond correctly, refer to the RBD5 Trouble-Shooting Guide on page 2-4.



Programme type PT

This has two functions.

To display current station programme type and to select a programme type and re-tune to it.

Momentarily press the PT button to display the current station programme type. Use the tuning buttons to cycle through the available programme types, press the PT button again to activate a search for the selected programme type. If there is a station with the correct PT, the radio will re-tune to it. If not, the radio will indicate NO PTY and return to the current station.



Phone mode

Pressing this button selects phone mode (where fitted).

2-4 Sound system operation

RBDS trouble shooting guide

Incorrect response from RBDS	Reason and rectification
Radio does not display programme name	Check that RBDS is turned on by pressing the TA button and holding for more than two seconds. The display will confirm RBDS ON or RBDS OFF if radio does not display programme service name, it is not broadcasting RBDS data, or you are in a poor reception area. Try re-tuning to another station with RBDS.
Station name is lost and displays frequency only.	Radio has lost reception of the RBDS data due to vehicle moving out of transmitter range, or loss of signal in a tunnel, under a garage forecourt canopy or some similar shielding. If the latter is the case, wait until the vehicle is clear of the shielding. There is a short delay before the station name returns.
Upon operating the A-MEM , most or all of the presets display NO FM when pressed.	The radio cannot find nine FM, RBDS FM or TP stations dependent upon the mode selected. If this occurs, switch off RBDS or TA function and reselect A-MEM .
Radio sound goes off and the display shows PI SEEK .	The RBDS radio station selected is unable to confirm that the frequency tuned to has the correct RBDS data – programme identification (PI). It will then seek a frequency that has the correct data.

Radio set up modes

This function allows the radio to be set up to suit the user's operating preferences. By moving into SET UP mode and using the Preset buttons, the owner or Jaguar Dealer can choose whether certain radio facilities are active or switched off.

When in SET UP mode, pressing the relevant Preset button, as detailed below, will show on the display the facility that has been selected and its state. The selected facility can be changed to the user's preference by pressing the Preset button again.

To enter the set up mode: Press the TAPE EJECT and the AM/FM buttons simultaneously.

The display will show SET UP. The following preferences can then be selected and changed in any order, as long as no more than 15 seconds elapse between Presets. After 15 seconds the display will clear.

- Preset 1** Press Preset 1 to select the market mode, thereby enabling or disabling RDS, depending upon RDS availability in the user's country.
- Preset 2** This preset controls the TAPE CLEAN reminder facility. To switch off this reminder, press the Preset 2 button until TAPE CLN OFF shows on the display.
- Preset 3** This preset controls the AERIAL CLEAN reminder facility. To switch off this reminder, press the Preset 3 button until AER CLN OFF shows on the display.
- Preset 4** This preset controls the telephone Mute facility. If a Jaguar telephone is installed, turn the telephone Mute on by pressing the Preset 4 button until TEL ON shows on the display.

Preset 5 **KEY OFF EJECT** Sets the cassette tape to automatically eject when the ignition key is turned OFF.

Preset 6 Blank.

Preset 7 **DIVERSITY OFF** Used when Diversity Aerial System is connected to the radio.

Preset 8 **AF ON/OFF** Used when specific RDS problems occur, that may be helped.

Preset 9 Blank.

Preset 0 This preset is used to select one of the following regions: Europe, USA, Australia, Japan. Regional settings determine the correct frequency increments required for seeking stations, automatic tuning etc.

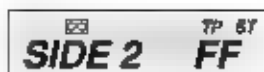
Note: Regions are preset at the factory.

2-6 Sound system operation

Cassette tape player operation

At all times the display will indicate which function has been selected by using a simple word, figure or abbreviation for example, **SIDE 1** or **SIDE 2**, or **FAST FORWARD** etc. Insert a cassette into the aperture and it will start to play immediately. After playing one side it will auto-reverse and play the other side. If a Metal or Chrome, rather than a Ferric tape is used, the equalisation will be automatically adjusted.

Example of cassette tape play display



STTK UP	Search to beginning of next track
SEEK DOWN	Search to beginning of track being played
REWIND	Rewind.
FAST FORWARD	Fast forward
TAPE LOADING	Loading a tape into the mechanism.
TAPE EJECT	Ejecting a tape.
TAPE CLEAN	Tape mechanism requires cleaning.



Eject button and tape-in indicator

Press to eject the cassette.



Tape button

Pressing this button will play any cassette that is in the player. This function is also controlled by a button on the steering wheel (see page 1-3).



Band switches AM/FM

Pressing this button selects radio operation.



Dolby B

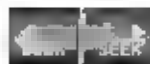
If you are using a cassette with a 'Dolby' recording, to select the noise reduction system, press the Dolby on/off button. An indicator is shown on the display.

Dolby noise reduction system is manufactured under license from Dolby Laboratories Licensing Corporation. 'Dolby' and the double-D symbol are trade-marks of Dolby Licensing Corporation.



Programme change button

While playing a cassette, press this button to change to the other side of the tape. This function is also controlled by a button on the steering wheel – press and hold (see page 1-3).



Forward, rewind control

This control has two functions, seek to track and fast wind in each direction. Momentarily pressing the right-hand button will activate tape search to the beginning of the next track. Similarly pressing the left-hand button will activate tape search to the beginning of the current track being played.

Pushing and holding either button for two seconds will activate continuous fast forward or rewind of the cassette. This can be cancelled by pressing the control in either direction.



CD Button

Pressing this button selects CD play (where fitted)



Phone Mode

Pressing this button selects phone mode (where fitted)

2-8 Sound system operation

Compact disc (CD) player (where fitted)

The radio cassette is used to control the CD autochanger. The CD unit comprises an autochanger which contains a magazine to take six discs, each mounted in a tray. This equipment is installed in the luggage compartment. The CD autochanger is available as an accessory from your Jaguar Dealer.

CD check sequence

When the CD Player is switched on it performs a check sequence. Each disc tray in the magazine is checked in turn and the display will show CHECK and the tray number. When the six trays have been checked the player will return to disc one.

CD changer loading and unloading discs and magazine

Ejecting the magazine

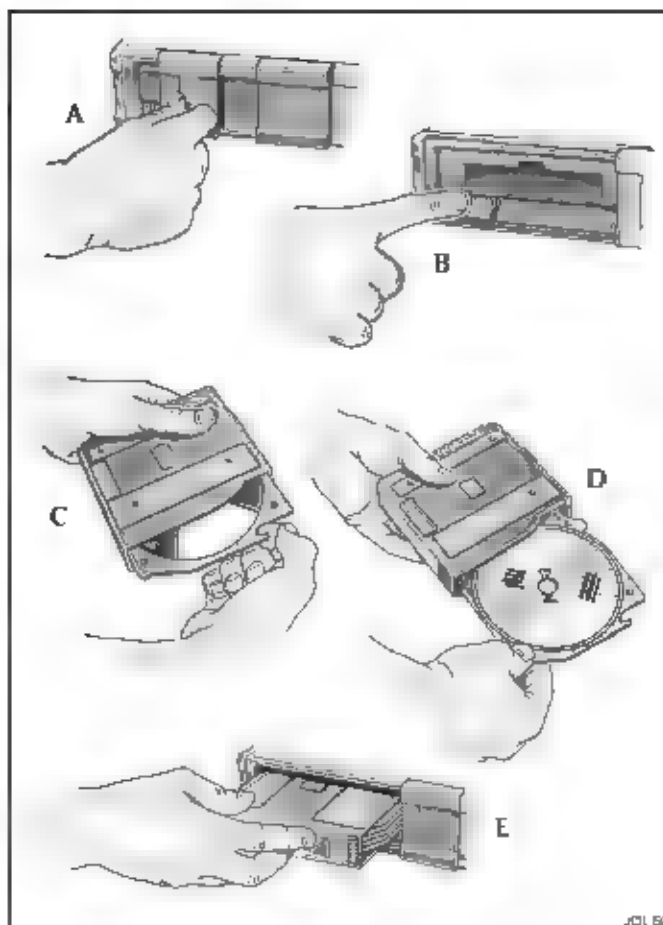
Slide the magazine door to the right (A). Press the eject button (B), the magazine will then partly eject from the changer. Pull out the disc tray from the magazine (C) and load your six selected discs into each tray with the labels facing upwards (D), taking care not to touch the playing surface. Push the tray back into the magazine until it clicks.

Disc tray slots are numbered 1 (bottom slot) to 6 (top slot).

Inserting the magazine

Insert the loaded magazine into the changer (E) with the arrow mark facing upwards and pointing towards the CD changer. Ensure that it clicks into position. Close the sliding door.

Keep the sliding door closed to prevent dust entering the playing mechanism.



CD operation

The radio display shows which CD function has been selected.

Example of CD Display, playing track 3 of CD1



Other messages

NO DISC in the selected position.

NO MAGAZINE in the CD Changer

CD1 MIX 10 the player is playing CD1 in MIX mode (track 10)

CD DMIX all CDs are in MIX mode.

MAG EJECT the magazine is being ejected.

DISC CHECK the Autochanger is checking there is a disc

PAUSE the Autochanger is paused and ready to play



CD button

This button can select CD from either tape or radio mode. This function is also controlled by the appropriate button on the steering wheel (see page 1-3).



Band switches AM and FM

Press this button to return to radio



CD selection

Buttons 1 to 6 directly select the CD in those positions in the autochanger magazine. If there is no disc in the selected position, **NO DISC** will be displayed. If there is no magazine in the changer, **NO MAGAZINE** will be displayed.

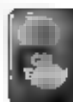


MIX and disc MIX

Momentarily press this button to select **MIX**. The player plays the tracks of the selected disc in random order. To cancel, press **MIX** again or any other button.

Press and hold to select **CD MIX**. The player plays tracks from any disc in random order. To cancel press **MIX** again or any other button.

2-10 Sound system operation



Tape button

Pressing this button selects tape play, if a cassette is in the player



Phone mode

Pressing this button selects phone mode (where fitted)



Forward, reverse control

This control has two functions: seek to track and fast play in each direction. Momentarily press the right-hand button to skip to the next track. Repeated pressing will select further tracks.

The left-hand button returns to the beginning of the current track. Repeated pressing selects previous tracks.

Pushing and holding either button selects continuous fast forward or fast reverse playing of the CD.

The sound level reduces during these cueing and reviewing modes. To cancel this mode release the button

CD player fault diagnosis

If the CD Player does not operate properly, an error message will be displayed. The following table gives fault diagnosis for each error message displayed.

MESSAGE	CAUSE	SOLUTION
E-01	Disc-change malfunction.	See your Jaguar Dealer
E-02	Disc is in player mechanism	Press the magazine eject button, insert an empty magazine into the player. Eject the magazine from the player by pressing the eject button. If the magazine fails to eject from the player, see your Jaguar Dealer.
E-03 E-04 E-05	Disc-change malfunction.	If the error message goes out within a few seconds, the unit is working correctly. If the error message stays on, see your Jaguar Dealer.
E-06	Disc-change malfunction.	Press the magazine eject button and pull out the magazine. Check that the error message goes out, then operate the function again. If the magazine cannot be pulled out, see your Jaguar Dealer.

2-12 Sound system operation

CD player fault diagnosis (continued)

MESSAGE	CAUSE	SOLUTION
E - 07	Magazine ejection impossible	Press the magazine eject button. If the magazine does not eject, see your Jaguar Dealer.
E - 30	High temperature	The error message will go out when the temperature returns to within the operating range.
NOT CONNECT	Bad connection or disconnected CD changer	Check connection between CD changer and control unit. See your Jaguar Dealer.
NO MAGAZINE	No CD magazine in the changer	Insert the CD magazine.
NO DISC	No CD in tray of magazine.	Insert a CD into the tray of the magazine.

Care of the audio system

Do not use petrol, solvents or abrasive cleaners on the radio. Wipe the surface of the radio with a lint-free cloth to remove dust. Slightly moisten the cloth with clean water to remove any finger marks from the outside surface of the radio.

Cassettes

Always use good quality cassettes. Low cost tapes can cause jamming, the sound quality will be inferior and they can create a fast build-up of deposits on the play-back head.

Before playing, check the cassettes to ensure that the tape is not loose on the spools. If necessary, take up the slack by gently turning the spools with the end of a pencil. A jammed or sticking tape will cause the auto-reverse mechanism to operate continuously.

It is advisable not to use a tape longer than 45 minutes playing time each side (C90). Cassettes should be stored in their library cases away from direct sunlight. Do not store cassettes in door pockets where they could be affected by the magnets in loud-speakers which might impair the sound quality.

Never insert a cassette that has a torn or loose label, it may cause the mechanism to jam.

After approximately 15 hours playing time, the display on the radio will show **CLEAN TAPE**. Clean the tape mechanism itself using a mechanical type cleaner with a wetting agent in an approved kit available from your Jaguar Dealer. Do not use abrasive type cleaners as they can cause excessive wear on the play-back head.

Compact Discs (CDs)

When handling CDs, do not touch the playing surface. When they are not being used they should always be stored in their cases away from direct sunlight, heat and dust. Scratches, finger-marks or dust on the surface of a disc can cause the optical pick-up to skip tracks. If the surface is dirty, use an appropriate CD cleaner.

Do not attempt to play damaged, warped, cracked or oversized discs. They could seriously damage the play-back mechanism.

Aerial

The aerial care procedure should be carried out when cleaning the exterior of the vehicle, to ensure smooth and reliable operation of the aerial.

When cleaning the aerial, always wipe it in an upwards direction. Occasionally use an aerial maintenance wipe cloth to lubricate the aerial.

In freezing conditions check that no ice has formed over the top of the aerial, this could prevent it from being raised, causing damage to the lift motor.

A special aerial cleaner is available from your Jaguar Dealer.

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